

TELEGRAPHIC NEWS

From All Parts of the World.

BEACONSFIELD AND SALISBURY.

More About the Special Pleading at the Carlton Club.

AUSTRIA'S INGLOURIOUS BLUSTER

Great Preparations to Take What the Congress Gives Her.

RUSSIA STILL BUYING SHIPS.

The Marquis of Lorne to Succeed Lord Dufferin.

[BY CABLE TO THE HERALD.]

LONDON, July 29, 1878.

The Carlton Club banquet in honor of Lord Beaconsfield and Salisbury was held in the Duke of Wellington's Dining Room. In his remarks relative to the Anglo-Turkish Convention Lord Beaconsfield argued that if the settlement of Europe had been limited to the Treaty of Berlin, Russia would probably in a few years again assault Turkey, when, whatever British power might be in power, that party would, even though no convention existed, have left bound, and would have been unable to defend Asia Minor. The convention with Turkey, by preventing such hostilities, practically lessened England's responsibilities.

THE TIERCE OF TRADITION.
Lord Salisbury, in his speech, claimed that Her Majesty's plenipotentiaries had tried to pick up the broken thread of England's imperial traditions. He refused to believe that other Powers would display jealousy when they saw that England's object was merely to establish peace and order.

AUSTRIAN OCCUPATION OF BOSNIA.
The special correspondent of the *Daily News* in his despatch from Brod dated August 28th, makes no mention of the entry of Austrian troops into Bosnia. He says everything is ready, including the material for two large bridges.

WHEREIN TURKEY WILL PROTEST.
The *Daily Telegraph's* despatch, dated Vienna, Sunday night, states that the advance into Bosnia has not yet been ordered. Count Andrassy said that the proclamation to the inhabitants, declaring that the Sultan commits them to the protection of the Austrian Emperor, would probably be the subject of a protest.

PREPARATIONS FOR TURKISH.
General Philippovich has issued a proclamation to the soldiers assigned to that addressed to the inhabitants of the Turkish provinces. He says he will know how to meet any resistance.

REGARDLESS OF RESULTS.
The Times despatch, from Vienna, Sunday, says:—"It is becoming more and more probable that a crossing will be ordered regardless of negotiations unless the long expected instructions arrive by the courier announced for to-day. It is reported from Constantinople that all parties and the Porte itself fully understand the uselessness of resisting in principle the decisions of the Berlin Congress relative to Bosnia and Greece."

NO FEAR OF RUSSIA.
Oman Pacha has ordered the discontinuance of work at entrenchments on the Constantinople lines, all probability of a conflict with the Russians having disappeared.

TURKEY TO REPRISAL GREECE.
The Porte intends to issue a memorandum relative to the Greek question. Greece has applied to Prince Bismarck, as President of the Congress, to make representations to induce Turkey to come to an arrangement.

NO DIRECT PROMISE.
A despatch to the *Daily Telegraph* from Vienna says that it is reported from Athens that the Porte has intimated its consent to negotiate with Minister Tripodis at Constantinople, but has given no idea of the basis of negotiations.

FINCH FLEET IN THE EAST.
The French fleet which has quitted the Straits for the Grecian Archipelago.

WHY IS THIS?
The *Post's* Berlin despatch states that Russia is still negotiating for the purchase of last North German Lloyd and Hamburg steamers.

ATTENDING FATHER IN INDIA.
A despatch to the *Times*, from Calcutta, reports that the government of Madras had telegraphed for extra famine officers immediately because of the ravages of locusts.

IN FAVOR OF MORE LIBERTY.
General Garibaldi has written a letter warmly approving the annexation demonstrations and recommending rifle practice throughout Italy.

THE KAFFIR INSURRECTION.
Despatches from Capetown, dated July 9, say that there has been some severe fighting with the natives in the bordering districts of Transvaal. The British losses were comparatively heavy.

THE MARQUIS OF LORNE TO SUCCEED LORD DUFFERIN.
The *Post* and *Times* announce officially that Lord Beaconsfield has selected the Marquis of Lorne to succeed Lord Dufferin as Governor General of Canada.

EXTREMELY WILLIAM'S WOUNDS.
A despatch to the *Post* from Berlin says that two pellets came out of the Emperor's arm during the past week by suppuration.

IN THE INTEREST OF MONARCHY.
The *Daily News's* correspondent at Paris telegraphs that a plan has been formed for a dissolution of the Chamber of Deputies in the anti-republican interest in November.

THE ATLANTIC CABLE OF 1876.
The Anglo-American Cable Company announces that the attempt to recover the cable of 1876 has failed.

FALL DOWN A COAL PIT.

[BY TELEGRAPH TO THE HERALD.]
WRECKING, W. Va., July 28, 1878.

Yesterday afternoon, while engaged in laboring at the mouth of a coal shaft at Steubenville, Ohio, a man by the name of Darque was precipitated to the bottom of the pit, a distance of 100 feet, and almost crushed to atoms. Three other men were thrown at the same time, but saved themselves.

THE PERMANENT EXHIBITION.

PHILADELPHIA, July 25, 1878.
The Permanent Exhibition was open to-day, the first time on Sunday since last summer. It is estimated that 5,000 persons were present. The exhibits were as numerous as ever. There was a grand organ concert.

SUICIDES.

JUMPED OVERBOARD FROM AN ALBANY BOAT.
ALBANY, N. Y., July 28, 1878.

An unknown man, about thirty-five years of age, dressed in a dark suit and wearing a high hat, committed suicide about four o'clock this morning by jumping off the steamer *St. John*, when opposite Van Hook Point, about two miles below this city. The boat was stopped and men went back to the spot in a small launch, but were unable to see anything of the man. He was supposed to be insane.

AN ATTEMPT WITH A REVOLVER.

NEWBURN, N. Y., July 28, 1878.
James Lockwood attempted suicide with a revolver here to-night, and inflicted a dangerous abdominal wound. Conjugal trouble incited the act.

CHURCH DEBT LIQUIDATION.

PROVIDENCE, R. I., July 28, 1878.
Edward Kimball has been laboring all day to liquidate the debt of the Free Evangelical Church of this city. The service commenced at ten o'clock this morning and was not concluded at seven o'clock to-night. It is thought that enough will be pledged to meet the debt, which amounts to about \$10,000.

THE SUN'S ECLIPSE.

Elaborate Preparations for Its Observation at Rawlins, Wyoming.

THE ASSEMBLED ASTRONOMERS.

Interesting Experiments with Edison's Instruments.

REMARKABLE RESULTS.

Solar Mysteries Which the Savans Desire to Solve.

ANXIOUS FOR GOOD WEATHER.

RAWLINS, WY., July 23, 1878.

The preparations for observing the forthcoming total eclipse of the sun from this point are almost completed. To-day the last rail was driven in the temporary structure, a new depot, which is to serve as an observatory. The latter is situated about eight hundred yards from the depot, at a short distance from the base of a range of hills and commands an excellent view. The observing party consists of Professor Henry Draper, of the University of Pennsylvania; Professor Thomas A. Edison, of Menlo Park; Professor George F. Barker, of the University of Pennsylvania; and President Henry Morton, of the Stevens Institute of Technology. Accompanying the party is Mrs. Henry Draper, wife of Professor Draper, who also takes part in the work of observation, being quite an enthusiast in the study of astronomy. The instruments brought here by the astronomers comprise several telescopes and spectroscopes, photographic apparatus, Edison's instrument and numerous other appliances of the latest and most approved pattern. All are now in readiness, and several preliminary experiments have demonstrated that transportation has not injured them. The main point sought to be determined by Professor Draper is whether the corona or halo surrounding the sun's disk is only a glowing gas, or whether it contains, in addition, solid or liquid particles that reflect light from the sun to the earth. If the corona is simply a glowing gas the spectrum will consist of bright lines or bright rings only, but if there are any solid or liquid substances reflecting light in the corona the spectrum will be of a faint continuous character, containing all the colors.

WHAT IS TO BE INVESTIGATED.
The sun, according to the best accepted theories, is a solid or liquid mass raised to such a temperature that it gives out white light. Immediately surrounding it is an envelope called the chromosphere, which to the naked eye appears of a rose tint. Outside of this is another envelope, nearly white, called the inner corona or outside of all is a fainter white material or outer corona extending, it is estimated, a distance of 500,000 miles. In the outer corona—i. e., those which occurred prior to twenty years ago, this corona, which is now the main object of scientific investigation, received but little attention. It was not even dignified by the name. Astronomers spoke of it as the "glare" or "halo" or "fuzziness." Nobody thought it worthy of study. In 1860, when photography for the first time was called in as an aid, interest became centered in it. It was not, however, until 1868 that its importance as a base of astronomical research became fully apparent. In that year the spectroscopic was first applied, and it revealed the fact that this halo, which in the meantime had been scientifically named "corona," was composed of hydrogen gas, together with, in a minor degree, some unknown substance, which to this day continues a mystery. This unknown material is designated by the term "helium."

THE SPECTROSCOPE.
By the invitation of Professor Draper your correspondent to-day visited the observatory and viewed some of the experimental solar spectra taken by means of the spectroscopes. This little instrument, which has proved so valuable in fathoming the mysteries of the solar system, consists, it will be remembered, of a small brass cylinder somewhat resembling a telescope. At one end is a thin metal disk, in the center of which is cut a narrow slit to admit rays of light. Arranged inside of the cylinder are lenses and prisms. When a ray of light from the sun penetrates through the slit it becomes at once decomposed into its constituent colors, making visible a beautiful band like a miniature rainbow, red at one end and blue at the other. This band is known as the spectrum. Across the surface of the spectrum are discernible as irregular intervals numerous dark black lines. If instead of sunlight light from the flame of vapor or from metal ignited to a white heat is allowed to pass through the slit another band appears less beautiful by reason of the absence of some of the colors, but containing similar fine lines, with, however, the important difference that dark lines are white instead of black. By the comparison of the lines produced by the light of any metal with those produced by the light of the sun the presence in the latter of such metal is determined. Exact similarity proves that the same substance produced both. In this way the presence in the sun of many metals and gases common on the earth has been ascertained.

PHOTOGRAPHING THE CORONA.
One of the chief difficulties in previous observations has been to obtain an image of the corona sufficiently bright to photograph. This difficulty, however, promises on the present occasion to be overcome. To his large equatorial telescope Professor Draper has attached an instrument designed by him, which condenses the image of the sun into less than one-fourth of an inch in diameter, and concentrates the rays to such a degree that white paper held immediately underneath is instantly set on fire. Just before the sun's rays come to a focus a ruled plate (technically called a "diffraction grating") is placed in the cone of rays at an angle of about thirty degrees. This reflects the light to one side, and at the same time disperses it into a series of spectra. At the focus of the instrument are placed three photographic plates, the middle one of which will receive a plain image of the sun. The other two will receive each a spectrum of the corona, but one will be twice as much dispersed as the other. By this arrangement the Professor hopes to enable the ordinary chances of success in the observation. The object of taking the central plain image of the sun is to have a standard of comparison for the two spectra so as to see how they compare in height with it.

EDISON'S WORK.
Professor Edison's part of the work on the day of the eclipse will be to observe with his instrument, attached to a large telescope, whether the corona given out any heat. Hitherto no researches have been made in this direction. At the moment of totality, when the entire disk of the sun is obscured by the moon, he will direct his instrument at the moon in order to get the "zero" point for his galvanometer. This accomplished he will change its position to bear on the corona. If the latter emits sufficient heat the needle of his galvanometer will indicate the same. During the trial the galvanometer and instrument will be carefully enclosed in suitable apparatus now being made for the purpose. The only difficulty which Professor Edison fears is that they may prove so exceedingly sensitive that extraneous influences surrounding may divert them from their proper work. Every precaution, however, will be taken to avoid such a result.

INVESTIGATION OF LINES.
The work assigned to Professor Barker is observation with a powerful telescope and spectrograph. He will particularly direct his attention to the identification of certain lines of the spectrum, about which at present but very little is known. President Morton's observations will be directed toward examining the corona with a view to ascertain whether or not it is polarized. For this purpose he will employ a polarization instrument, which will show whether any of the light of the corona is reflected light from the sun or whether it all comes from the heated gas of the corona itself. During the totality Mrs. Draper will make some telescopic observations and notify the professors the instant the eclipse ceases, so that they may not at once prevent the suddenness of the light from spoiling the photographs. As a sort of side issue the observers will carefully watch during the eclipse for the appearance of a new planet between the sun and Mercury, recent observations in New York by Professor Draper having led him to believe that one existed in that position.

ANXIETY ABOUT THE WEATHER.
As the time approaches for the event the anxiety of the astronomers about the weather becomes greater. Yesterday it rained furiously for some three hours, and, although the men of science were securely sheltered from the storm, they discussed it with as much anxiety as if they were miles away on the open plains without even a parasol to protect them. To-day some large dark clouds suddenly gathered overhead, and instantly the faces of the observers were changed into human barometers. As the clouds increased their countenances grew grave. Sunshine begot smiles and congratulations.

Up to date no other party of astronomers have come to this point, although some are expected in a day or two. At separation, a station ten miles above, on the line of the road, a number are gathered, and the latest advice state that their arrangements for the eclipse are progressing favorably. At Creston, twenty-eight miles west, are Professors Newcomb and Harkness, of the government expedition, well supplied with apparatus. Another expedition is stationed at Fort Steele, fifteen miles east. Pike's Peak has its share of observers, and along the line of the shadow in Colorado numerous other parties are located. In Denver are several European astronomers as well as some of the government observers. Although the region of the eclipse has thus far not been favorable, so far as weather is concerned, for satisfactory results, there can hardly be a failure, the astronomers having taken every precaution in the way of separating. Late advice received by Professor Draper from the signal office at Washington give good cause to hope for weather sufficiently clear to enable good results to be obtained at Rawlins.

FINAL PREPARATIONS FOR THE EVENT—EDISON'S EXPERIMENTS—THE QUESTIONS TO BE SOLVED BY THE OBSERVATIONS—REMINISCENCES OF FORMER ASTRONOMICAL EXPEDITIONS.

[BY TELEGRAPH TO THE HERALD.]
RAWLINS, WY., July 23, 1878.

All is ready for the eclipse. The astronomers along the line of the shadow belt, mindful of the fact that it is the last total eclipse in America during the present century, have made the most careful preparations. Telescopes, spectroscopes, polariscopes and all the latest scientific appliances have been brought into play and are only waiting for the important event. The utmost efforts will be made to lay hold of the mysteries of the great luminary. All the instruments at this point of observation are in complete order and have given satisfactory preliminary results. Nothing now remains but to wait for the two and one-half minutes of clear sky during which the moon will veil the sun from view and turn day into darkness.

THE LAST PREPARATIONS.
From dawn yesterday until after midnight the various members of the expedition worked assiduously, each rehearsing his part. Dr. Draper, the chief, adjusted for the last time his large equatorial telescope and arranged his camera. During totality he will take three simultaneous photographs, each of different size. Professor Morton occupied the day in making some important modifications to his polariscope. Professor Barker was busy for several hours getting his apparatus in sensitive adjustment.

A FAVORABLE SYMPTOM.
During his experiments he discovered one exceedingly large protuberance on the upper edge of the sun, different in many respects from others of the kind. The announcement was gratifying to the astronomers, as it portends a state of eruption in the sun favorable to the observations.

INEXHAUSTIBLE RESERVE.
Edison never was more indefatigable. Beginning his work on the instrument at an early hour yesterday morning he continued at his post with scarcely an intermission until four o'clock this morning. He expended much difficulty on account of the instrument's sensitiveness to change in the temperature. The approach of any person within five feet threw the instrument out of adjustment. The heat from his little finger at that distance deflected it several degrees.

EXPERIMENTS WITH THE TASIEMETER.
Last night he spent hours in experimenting on the heat of the stars. The fixed Arcturus was found to give a decided deflection. The astronomers gathered around and pronounced it wonderful, the most sensitive thermometer hitherto having but barely detected heat in that star. The next star tried was Vega, but it was long before Edison could get any result. Finally ray of light rushed up and down the graduating scale regardless of any known law. Edison looked solemn. Finally he discovered the erratic deflections to be due to a slight variation in the local temperature. Again adjusted, the delicate heat measurer told that Vega gave out considerable heat. On the whole the experiments proved highly satisfactory. While measuring the heat of the corona and during the eclipse, no person except himself and assistant will be allowed within six feet of the observatory, so as to avoid changes in the temperature. His calculation is to have the tasiometer during the eclipse adjusted to a degree 9,000 times more sensitive than an ordinary thermometer.

THE PHOTOGRAPHIC WORK.
The work of Norman Lockyer, of England, will be confined mainly to photographing the spectrum of the corona and of observing its structure with a telescope. His facilities for the same have been materially increased by numerous photographic apparatus placed at his disposal by the photographer of the Union Pacific Railroad. Professor Watson, of Ann Arbor, intends to work solely on the discerning of objects in the vicinity of the sun, between it and Mercury.

RESULTS OF PAST OBSERVATIONS.
To review cursorily the result of past eclipse observations imagine a circle, the size of a silver dollar, enclosing those smaller circles of the size respectively of a twenty-five, a ten and a five cent silver piece. Let the smallest circle represent the sun, the next its chromosphere, or first atmosphere; the third the inner corona, or second atmosphere, and the largest the outer corona. On the spectroscopic, or observing instrument, the sun gives thousands of fine black lines which correspond to lines obtained from many of the earth's metals when observed at white heat, showing that the sun contains iron, nickel, calcium and other metals. From the chromosphere like results have been obtained, but less in number. In the inner corona the astronomers have discovered the presence of only two substances. One is hydrogen; the character of the other is at present unknown, none of earth's products having been found to correspond to it.

MYSTERIOUS SUBSTANCES.
In the outer corona science has discovered the presence of only one substance which is equally unknown. To ascertain what these unknown substances are will be one of the main objects of investigation during the eclipse. The reason why astronomers study the sun during eclipse, it will be remembered, is because at other times its intense light completely obscures its various atmospheres.

INTERESTING REMINISCENCES.
The chief topic of conversation among the astronomers here is in regard to eclipses and heavenly bodies. Sitting in the observatory this afternoon the astronomers entertained each other with their adventures while on eclipse expeditions. Professor Wilson's experiences in China during the transit of Venus four years ago were quite interesting. His party was looked upon by the natives with suspicion and deeply watched. The Emperor gave orders that he be instantly informed of the result of the observations. When Venus crossed the sun's disk the report was made. The character used in describing the transit to the Emperor was likewise the character for snailshell. The following day the Emperor, by a strange coincidence, was stricken with that disease, and died in less than a week. His death was at once attributed to the astronomers, and it was only by strategy and good fortune that they succeeded in leaving the country alive. Professor Lockyer's experience at the last eclipse in India was equally interesting. Twenty thousand natives chanting, shouting and beating drums came to witness the eclipse. The astronomers were besieged and begged them to rid the world of the dreadful dragon that had swallowed the sun, and until the observers solemnly promised to do so they would not disperse.

PROSPECT OF FINE WEATHER.
The prospects of fine weather during the eclipse are

good. To-day the skies are comparatively clear along nearly the entire line of the shadow.

ANXIOUS ASTRONOMERS ASKING, "ARE WE TO HAVE CLEAR OR CLOUDY WEATHER FOR OBSERVATIONS?"

As many eyes will be turned to-day on the sun about the hour of his eclipse it will be interesting to know the probabilities as to the weather being favorable or otherwise for the observers. The *HERALD* Weather Bureau makes the following general deduction:—Along the path of totality, from Northern Idaho to the Gulf coast, near Sabine City, the conditions will vary considerably. In Idaho and Wyoming Territory the prospects are pretty favorable for a good view of the eclipse, but in the adjoining Territory of Montana the indications are that partial or general cloudiness will interfere with the observations, particularly in the eastern sections, where, however, the eclipse will be only partial. For Colorado and Southwestern Kansas the prospects are very favorable, but southward to the Gulf, over Indian Territory and Texas, the barometric disturbance moving over these regions will be attended by cloudiness and possibly rain.

In the regions northeastward from the path of totality the conditions will also vary very much. In the New England States clear weather will favor the observers. In the Middle States, including New York, fair weather will prevail. In the lake districts, cloudy; in the Ohio Valley, probably cloudy; in the Upper Mississippi Valley, probably cloudy; in the Missouri and Northwest, probably partly cloudy; in the Lower Mississippi Valley, cloudy; in Tennessee, cloudy; in the South Atlantic States, fair or partly cloudy; in the East Gulf fair or partly cloudy. On the whole, the percentage is largely against a general and good observation of the partial eclipse. The favored regions lie along the Atlantic coast.

HOW TO MAKE A PICTURE OF THE ECLIPSE.
NEW YORK, July 27, 1878.

To the Editor of the *HERALD*:—
Choose a window facing the sun at the time of the eclipse and draw the curtain down so that a short distance of the window sill, cover the open space with thick wrapping paper and then cover the window above the paper with a sheet of white paper. Cover all the window in the same way till the room is dark. Then take a pinhole in the paper and then hold a sheet of white paper near the hole so that the sunlight entering the hole will fall upon it. This will give a picture, or projection, of the sun, and during the eclipse will show every phase of the shadow. The picture will be upside down, but plainly visible and can be examined with the aid of smoked glass. By making a hole five millimetres (2/16 inch) in diameter and placing the paper screen further away from the window a much larger projection may be obtained. By using sensitized paper for the screen permanent pictures may be obtained. Even without photographic paper the experiment makes a cheap and picturesque method of viewing the eclipse.

CHARLES BARNARD.

THE CHINESE EMBASSY.

RETICENCE OF THE CELESTIAL ENVOY—CONDEMNATION OF THE CHINESE IN AMERICA—HOW THE SUBJECT MAY BE APPROACHED—THE BURLINGAME TREATY.

[BY TELEGRAPH TO THE HERALD.]
SAN FRANCISCO, July 28, 1878.

The Chinese embassy, by their mission here, are doing a noble work. They are not only doing a noble work, but they are also doing a noble work. They are not only doing a noble work, but they are also doing a noble work. They are not only doing a noble work, but they are also doing a noble work.

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NEW YORK, July 27, 1878.

To the Editor of the *HERALD*:—
Choose a window facing the sun at the time of the eclipse and draw the curtain down so that a short distance of the window sill, cover the open space with thick wrapping paper and then cover the window above the paper with a sheet of white paper. Cover all the window in the same way till the room is dark. Then take a pinhole in the paper and then hold a sheet of white paper near the hole so that the sunlight entering the hole will fall upon it. This will give a picture, or projection, of the sun, and during the eclipse will show every phase of the shadow. The picture will be upside down, but plainly visible and can be examined with the aid of smoked glass. By making a hole five millimetres (2/16 inch) in diameter and placing the paper screen further away from the window a much larger projection may be obtained. By using sensitized paper for the screen permanent pictures may be obtained. Even without photographic paper the experiment makes a cheap and picturesque method of viewing the eclipse.

CHARLES BARNARD.

THE CHINESE EMBASSY.

RETICENCE OF THE CELESTIAL ENVOY—CONDEMNATION OF THE CHINESE IN AMERICA—HOW THE SUBJECT MAY BE APPROACHED—THE BURLINGAME TREATY.

[BY TELEGRAPH TO THE HERALD.]
SAN FRANCISCO, July 28, 1878.

The Chinese embassy, by their mission here, are doing a noble work. They are not only doing a noble work, but they are also doing a noble work. They are not only doing a noble work, but they are also doing a noble work. They are not only doing a noble work, but they are also doing a noble work.

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